

## List of relevant sequences

SEQ ID NO:1 (AJ002425.2 Nucleotide sequence for CAA05410.2 (LBDG5) protein, coding region start position =61, coding region finish position=1905)

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5      1 ggggcttatt aacggtggtg tctggtagag cccccataaa gtaccaccgt ggggaagaca
      61 atgggacccg aaaacgagag ccccggtggg ggggagatgt gggggagagt gtgtgtgttc
     121 agcgctagac aaaagagacc gcgatgcagc actttaaata gtcttctcgt tgctagaaca
     181 tgctataaca tgctggcgct ggtggattgg atcgagcagg atttcaagag cacttggcga
     241 aaggctcacg tttccctccg cgggttcctc gatttcgagc tggggagacg aaaagaggtt
    10 301 gccggggcctt ttctgggtgg ggataccaga cctgacccca aaaagccgcg ggggggggtcc
     361 aaaaagaacg tggaggtgta tgatgatgac gtaggctctc aggctgcgga cagccccggg
     421 aaacgcatgg ccccgaaagg gacattttaga gataaggaca aatttgaagg gctgtttaag
     481 ctgggggcgc tgggtggcaa aaaagccttg accccagcat tttcttgctc cccaacagg
     541 gggctgcctc tacacgcca ttatggggat gaaatcctct acaaggttga atccgggccc
    15 601 gtcaacattt gcgagggggg caaaagaggc gtgggggatcc acccccaga taactacggc
     661 gatacccttg atgaaaatct tggccttccc caaaaaattg tgattaaggt gaagcccaaa
     721 accgaggaag ccaacacttg gttaaggcag gatctgaaaa atcataacag tgcaaaggag
     781 gccgggggct ccgacgagat taaaaccttt gtgacaggat gtaaaaaaga tgggcatagt
     841 gggcgtaaaa atatgaccac acatgacaga aattcaaaaa agtggcaacg ggtaaacttg
    20 901 tcccttatgg cctccctcca gctagattct aggggcggac gcgcggggcc ccggcgcgga
     961 gcgcggcgcc tgtgcctggg gtgtgaggac tatgccagct gttcaaacac ctgtgtctgg
    1021 tcctgtgaag cctacaaggt cttctttcgc cgaagtcaaa gtttcacaga tccagcctgt
    1081 ttcacaaacg attgcaacat ctctaagaat aggtctaagt cttgccagc ttgcctcctc
    1141 cgttgcctgc accctagcat taatgagatc cgaaaagaca agcgagcagc gctgaaagtg
    25 1201 cgagacaacg ttggtgaaga ggtggatatg accggtccta gctggacctg cctgaagcta
     1261 cttttttcag atggggaaaa agtgataccc agattgggcc atgaactccc agggatcaag
     1321 gggggccggc aggcaaaaca gcagtccac cgaggaagcc ccatcccaa aaacaggaaa
     1381 gggtggcccc ccggacatgt cctgtcaaat gacggcggag ctggtggcag ggtatggaaa
     1441 aaaaaatcct gtaaaccaat tcgccgagaa ggccccaagt ggtgggatcg gctgaatgaa
    30 1501 tctacacctt tgttttgggg gtctcgagcc aacaagagtt tagggaaggg aggcaccagg
     1561 gggaggattt tcatcaagca ccacacctc tttaagtttg cagcagatcc tcaggacaag
     1621 cactggctgg ctgagcagca tcatatgcgg gcaacaggag gaaagatggc gtaccttctc
     1681 attgaggaag acatcgggca gcatcatggc caggggttcc cagttatgct tctcaagatt
     1741 agccatatta ggcacatggt tgggggagtg gctcattgct tgtacgacat gaaagaaaag
    35 1801 aagtttgctc tgccatcctg gaaggttgag aagttgggga aatacgtgga gacactacgg
     1861 acagaaaaag agcatcgtgc tgctgaagca agtccccaga cctgactttc ccggcccggc
     1921 tgaggccatc atggggatgc ggtctagttg gctcttagca gcatcaagct gtacatgagc
     1981 tagttttagt tgactcactg cagagcccc cagactggct tgtggttctg tttctaaagt
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2041 tatttgaata agaagcaatt aaacaagttt gtaattttaa aaaaaaaaaa aaaaa

SEQ ID NO:2 (Protein CAA05410.2; LBDG5)

1 mgpenespgv gemwgrvcvf sarqkrprcs tlnsllvart cynmlalvdw ieqdfkstwr  
5 61 kahvsrlrgfl dfelgrrkev agaflggdtr pdpkkprggs kknveyydd vgsqaadspg  
121 krmapkgtftr dkdkfeglfk lgalvakkal tpaafscspnr gsplhahygd eilykvesgp  
181 vniceggkrg vgihppdnyg dtldenlglp qkivikvkpq teeantwlrq dlknhsake  
241 aggsdeiktf vtgckkdghs grknmtthdr nskkwqrvnl slmaslqlds rggragprrg  
301 arrlclvced yascsnctcvw sceaykvffr rsqsftdpac ftndcniskn rskscpacll  
10 361 rclhpsinei rdkkraalkv rdnvgeevdm tgpwtclkl lfsdgekvip rlghelpgik  
421 ggrqakqqsh rgspipknrk gwppghvlsn dggaggrvwk kksckpirre gpkwwdrln  
481 stplfwgsra nkslgkggr grifikhphl fkfaadpqdk hwlaeqhmr atggkmayll  
541 ieedigqhhg qgfpvmlki shirhmvggv ahclydmkek kfvlpwkv klgkyvetlr  
601 tekehrarea spqt

15

SEQ ID NO:3 (Nucleotide coding sequence for LBDG10, CAA05409.2)

1 atggaccccg agaacgtgag agccgagggc ggggacatga gggagaaagt gagactgtcc  
61 agcgctagac agagactgag atgcagcact aagaatagtc ttctcgttgc tagaacatgc  
121 gtgctgaggc tggctgattg gatcgagcag gatctcaaga gcacttgcca aaaggctcac  
20 181 gtttccctcc gcgggtacct cgatttccag ctgcaatgag ggagacgaaa agagggtgac  
241 ggggctctgg gtggggatac cagacctgac cccaagaagc cgcggggggg ctccaaaaag  
301 aacgtggagg tgtatggtga tgacgtaggc tctcaggctg cggacagccc gaggaacag  
361 ctggccgcga aaggacatt cagagataag gacaaaattg aagcgctgtt caagctcggg  
421 gagctggtgg ctaaaaaagc cttgtcctca gcaattactt ggttcccca cagcgtgtcg  
25 481 cctctacacg ccattatg ggatgaaatc ctctacaagg atgaatccgg gcttgtcaac  
541 attagcgagg gtggcaaaag aggcgtggag atccaccccc cagataactt cggcatcaca  
601 acccttgatg aagatcttgg ctttcccca ataattgtga ttaacgtgaa gcctcaaacc  
661 gaggaagcca aacttggtg tagacaggat ctgaaatgc ataacagtgc aaacgaggcc  
721 gggactccg acgagaataa aacotttgtg agaggatgta gaaaagatgg gcatagttag  
30 781 cgtaacaata tgaccacagg tgacagaaat tcaaaaaagc ccagcccgt aaacttctcc  
841 ctcatggcat ccctcgccct ggattctagg ggcaaagccg cggggccccc gcgcggagcg  
901 aggcgcctgt gcctggtgtg tgaggactat gccagctgtt caaacacctg tgtctggtcc  
961 tgtgaagcct acaaggtctt ctttcgccga agtcaaagtt tcacagatcc agcctgtttc  
1021 acaaacgatt gcaacatctc taagaataga tctaagtctt gccagcctg cctcctccgt  
35 1081 tgcctgcagc ctagcatcaa tgagatccga aaagacaagc gagcagcgct gaatgtgcga  
1141 gacaacgttg gtgaagaggt ggatagacc ggtcctagct ggacctgcct gaagctactc  
1201 ttttcagatg gagaaaaagt gataccaga ttggcccatg aacttccagg gatcaagcgt  
1261 ggccggcagg cagaagagga gtcccaccga ggaagccca ttcccaaaaa gaggaaggt

1321 tggcctcctg gacatgtcct gtcaaagtac cgcgcagctg ctggcacggt atggaaacca  
1381 aaatcctgtg aaccaattcg ccgagaaggc cccaagtggg acgctcggct gaatgaatct  
1441 accacctttg ttttggggtc tcgagccaac aaggccttag ggaagggagg caccagaggg  
1501 aggatattaca tcaagcacc acacctcttt aagtatgcag cagatcctca ggacaagcac  
5 1561 tggctggctg agcagcttca tatgcgggca acaggaggaa agatggcgta ctttctcatt  
1621 gaggaagaca tcgagcagca tcatggccag cggttcgcag ttttcttct caagattagc  
1681 catattagc acatggttga gggagtggct cattgcttgt acgacatgaa agttatccag  
1741 tttgttctgc catcctggaa ggttgagaag ttgcggaaat acgtggagac actacggaca  
1801 gaaaatgagc atcgtgctgc tgaagcaagt cccagacct ga

10

## SEQ ID NO:4 (Protein coding sequence for LBDG10, CAA05409.2)

1 mdpenvraeg gdmrekvrsl sarqrlrcst knsllvartc vlrlvdwieq dlkstcekah  
61 vsrlrgyldfq lqcgrakeva galggdtrpd pkkprggskk nveygddvg sqaadsprkq  
15 121 laakgtfrdk dkiealfklg elvakkalss aitwfpnsvs plhahygdei lykdesglvn  
181 iseggkrgve ihppdnfgit tldeedlgfpq iivinvkpqt eeantwyrqd lkyhnsanea  
241 gysdenktfv rgcrkdghse rnnmttgdrn skkaqpvnfs lmaslaldsr gkaagprrga  
301 rrlclvcedy ascstncvws ceaykvffrr sqsftdpacf tndcnisknr skscpacllr  
361 clqpsineir kdkraalnvr dnvgeevdmt gpswtclkl1 fsdgekvipl lahclpgikr  
20 421 grqaeeshr gspipkkrkg wppghvlsnd raaagtvwkp kscepirreg pkwdarlne  
481 ttflvgsran kalgkggtrg riyikhphlf kyaadpqdkh wlaeqhlmra tggkmaylli  
541 eedieqhghg rfavfllkis hirhmvegva hclydmkviq fvlpswkvek lrkyvetlrt  
601 enehraaeas pqt

## 25 SEQ ID NO:5 (Nucleotide coding sequence for BAB62888.1 (LBDG11))

1 atgggagcca ctggcgacgc cgagcagccg cggggaccca gcggggcga gagggcgccg  
61 ttggagctgg gggatgcggg cgcagcggg cagctggttc ttacgaacct ttggaacata  
121 atgataaagc accggcaggt gcagcggagg ggccgcccgt cacagatgac aacaagtctc  
181 acagatcctg ccatctccat ggatctcctc cgagctgtcc tgcagcccag catcaacgag  
30 241 gagatccaga ctgtcttcaa caagtacatg aagttcttcc agaaggcagc actgaacgtg  
301 cgagacaatg ttggggagga ggtggacgca gagcagctga tccaggaagc ctgtcggagc  
361 tgcctggagc aggctaaact gctcttttca gatggagaaa aagtaatacc cagattgacc  
421 catgagcttc caggaataaa gcgtggccgt caggcagaag aagaatgtgc ccatcgagga  
481 agcccccttc ctaaaaagag gaaaggacgg cctcctggac acatcctgtc aagcgaccgg  
35 541 gcagccgccg gcatggtatg gaaacaaaaa tcctgtgaac caattcgccg ggaaggcccc  
601 aagtgggacc cagctcgcct gaatgaatct accacctttg tgttgggata tcgagccaac  
661 aaagccctgg ggatgggggg caccagagga agaattctaca tcaagcacc acacctcttt  
721 aagtatgcag ctgaccccca ggataagcac tggctggctg agcagcatca catgcgggca

781 acagggggca agatggccta cctcctcatc gaggaggaca tccgggacct tgcggccagt  
 841 gatgattaca gaggatgcct ggatctgaag ctagaggaat tgaaatcctt tgtcctaccc  
 901 tcctggatgg tggagaagat gagaaagtat atggagacac tacggacaga gaatgagcat  
 961 cgtgctgttg aagcacctcc acagacctga

5

#### SEQ ID NO:6 (Protein coding sequence for BAB62888.1 (LBDG11))

1 mgatgdaepp rgpsgaergg lelgdagaag qlvltnpwni mikhrqvqrr grrsqmttsf  
 61 tdpaismdll ravlqpsine eiqtvfinkym kffqkaalnv rdnvgeevda eqliqeacrs  
 121 cleqakllfs dgekviprlt helpgikrgr qaeeecahrg splpkkrkgr ppghilssdr  
 10 181 aaagmvwkp k scepirregp kwdparlnes ttfvlgsran kalgmggtrg riyikhphlf  
 241 kyaadpqdkh wlaeqhbmra tggkmaylli eedirdlaas ddyrgcldlk leelksfvlp  
 301 swmvekmrky metlrlteneh raveappqt

#### SEQ ID NO:7 (Nucleotide coding sequence for AAH03486.1 (LBDG12))

15 1 atgggggcca ctggcgacac cgagcagccg cggggccccc gcggggcgga gcgaggtggc  
 61 ctggagctgg gcgacgcggg cgcggcgggc cagccggttc tcacgaaccc ttggaacata  
 121 atgataaaac atcggcaggt gcagcgaagg ggccgccgat ctcagatgac cacaagtttc  
 181 acagaccag ccatctctat ggatctcctc cgtgctgtcc tgcagcctag catcaatgag  
 241 gagatccagg gtgtcttcaa caagtacatg aagtctctcc agaaggcagc gctgaatgtg  
 20 301 cgagacaatg ttggggaaga agtggacgca gagcagttga ttcaggaggc ctgccgcagc  
 361 tgcctggagc aggcaaagct gctcttttct gatggagaga aagtataacc cagattggcc  
 421 catgagcttc cagggatcaa gcggggcccg caagcagaag aggagtccca ccgaggaagc  
 481 cccattccca aaaagaggaa aggtcggcct cctggacacg tcctgtcaaa tgaccgcgca  
 541 gctgctggca tggatatgaa aaaaaaatcc tgtgaaccaa ttcgccgaga aggccccaag  
 25 601 tgggaccag ctcggctgaa tgaatctacc acctttgttt tggggtctcg agccaacaag  
 661 gccttgggga tgggaggcac cagagggaga atctacatca agcaccaca cctctttaag  
 721 tatgcagcag atcctcagga caagcactgg ctggctgagc agcatcacat gcgggcaaca  
 781 ggcggaaaga tggcgtaact tctcattgaa gaagacatcc gggacttggc tgccagcgat  
 841 gactacagag gatgcttggc cctgaagttg gaggagctga aatcctttgt tctgccatcc  
 30 901 tggatggttg agaagatgcg gaaatacatg gagacactgc ggacagaaaa tgagcaccgc  
 961 gctgcggaag cgcctcccca gacctga

#### SEQ ID NO:8 (Protein coding sequence for AAH03486.1 (LBDG12))

1 mgatgdtepp rpgggaergg lelgdagaag qpvltnpwni mikhrqvqrr grrsqmttsf  
 35 61 tdpaismdll ravlqpsine eiqgvfnkym kffqkaalnv rdnvgeevda eqliqeacrs  
 121 cleqakllfs dgekviprla helpgikrgr qaeeeshrgs pipkkkrgrp pghvlsndra  
 181 aagmvwkqks cepirregpk wdparlnest tfvlgsrank almgmgtrgr iyikhphlflk

241 yaadpqdkhw laeqhhmrat ggkmayllie edirdlaasd dyrgcldlkl eelksfvlps  
301 wmvckmrkym etlrtenehr aaeappqt

SEQ ID NO:9 (Nucleotide coding sequence for AAK49953.1 (LBDG13))

5     1 atgggggcca ctggcgacac cgggggnccc cggccgggga cggaatcaag gcggcctgga  
      61 aacgtgggca acgcgggccc ggccggccag ccggttctca cgaacccttg gaacataatg  
      121 atcaaacctc gccaggtgca gcgaagaggg ccgcgatctc agatgaccac aagtttcaca  
      181 gatccagcca tctctatgga tctcctccgt gctgtcctgc agcctagcat caatgaggag  
      241 atccagagtg tcttcaacaa gtacatgaag ttcttccaga aggcagcgct gaatgtgcga  
10    301 gacaacgttg gtgaagaggt ggatgcagaa cagttgattc aggaggcctg ccgcagctgc  
      361 gtggagcagg caaagctact cttttcagat ggagaaaaag tgatacccag attggcccat  
      421 gaacttccag ggatcaagcg tggccggcag gcagaagagg agtcccaccg agaagcccca  
      481 ttcccaaaaa gaggaaaggt cggccttcct ggacatgtcc tgtcaaatga ccgcgcagct  
      541 gctggcatgg tatggaaacc aaaatcctgt gaaccaattc gccgagaagg cccaagtgg  
15    601 gaccagctc ggctgaatga atctaccacc tttgttttgg ggtctcgagc caacaaggcc  
      661 ttagggatgg gaggcaccag agggaggatt tacatcaagc acccacacct ctttaagtat  
      721 gcagcagatc ctcaggacaa gcactggctg gctgagcagc atcatatgcg ggcaacagga  
      781 ggaaagatgg cgtaccttct cattgaggaa gacatccgag acttggtgcg cagcgatgac  
      841 tacagaggat gcttggacct gaagttggag gagctgaagt cttttgtttt gccatcctgg  
20    901 atggttgaga agatgcggaa atacatggag acactacgga cagaaaatga gcatcgctgt  
      961 gctgaagcaa ctccccagac ctga

SEQ ID NO:10 (Protein coding sequence for AAK49953.1 (LBDG13))

      1 mgatgdtggp rpgtesrrpg nvgnagaagq pvltnpwnim ikprqvqrrg rrsqmttsft  
25    61 dpaismdllr avlqpsinee iqsvfnkymk ffqkaalnvr dnvgeevdae qliqeacrsc  
      121 veqakllfsd gekviprlah elpgikrgrq aeeeshreap fpkrgkvglp ghvlsndraa  
      181 agmvwkpksc epiirregpkw dparlnestt fvlgsranka lmggtrgri yikhphlfky  
      241 aadpqdkhw1 aeqhhmratg gkmaylliee dirdlaasdd yrgcldlkle elksfvlpsw  
      301 mvekmrkyme tlrtenehra aeatpqt